

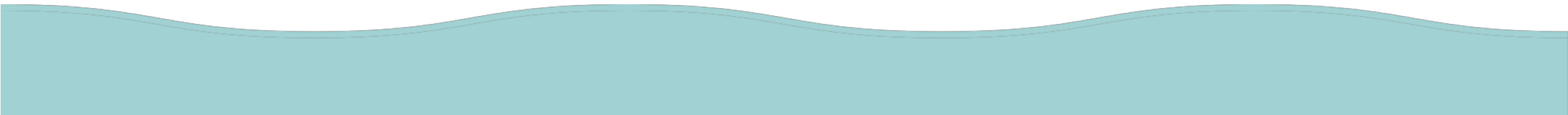


Hawaii's Response to Climate Change

Anu Hittle

Hawaii Climate Change Mitigation and Adaptation Coordinator

Hawaii Department of Land and Natural Resources.



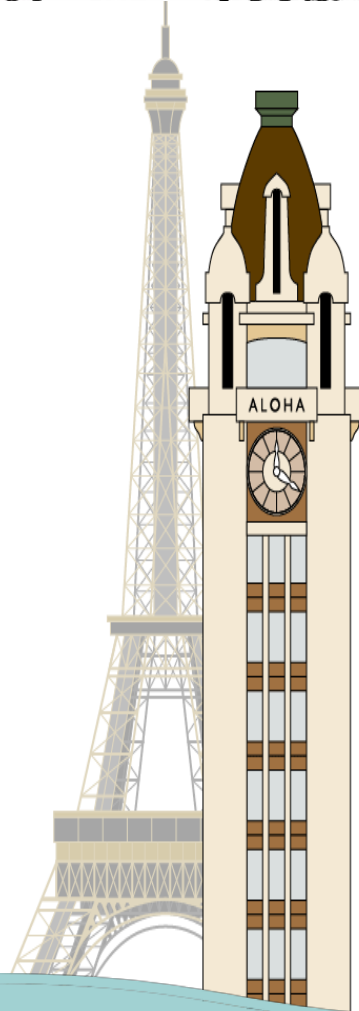
Hawaii's Response to Climate Change

The Paris Agreement

2016: 197 countries agree to limit global temperature rise below 2°C.

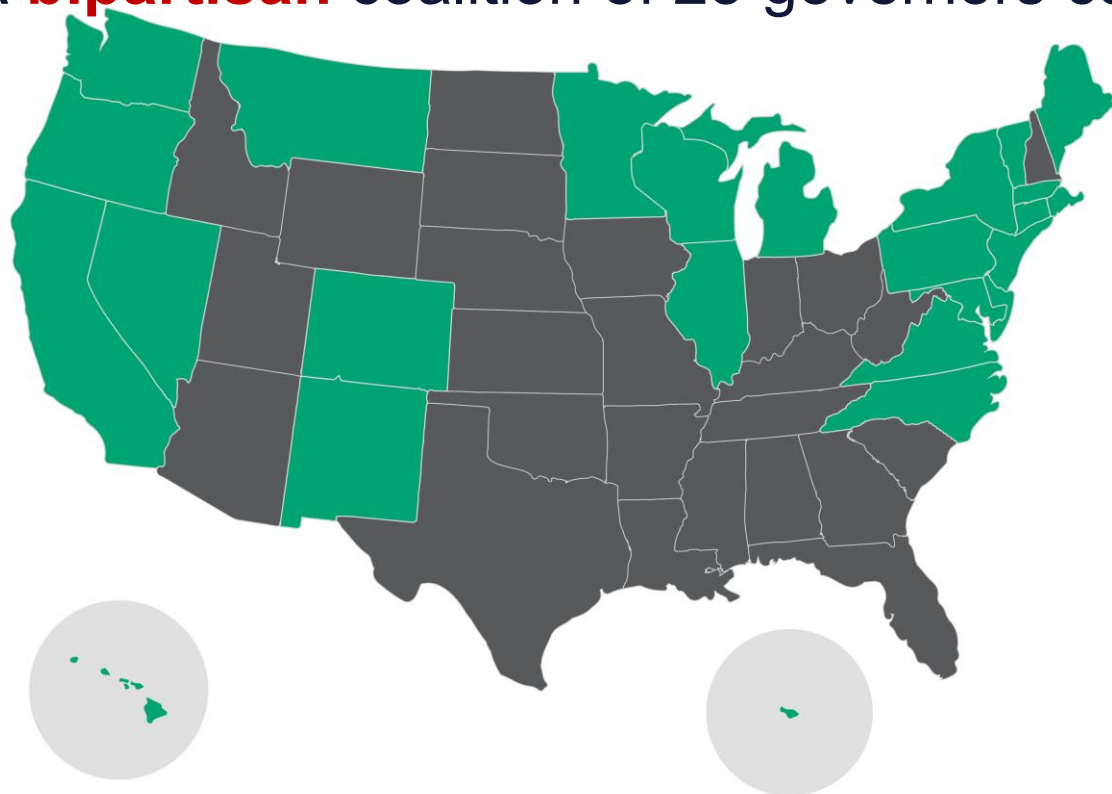
Hawaii's Response—Act 32 and Net Zero

2017: Act 32 affirms the State's commitment to the Paris Agreement goals and establishes the Climate Change Commission.
2018: State of Hawaii has ambitious goals—to become Carbon Neutral by 2045.



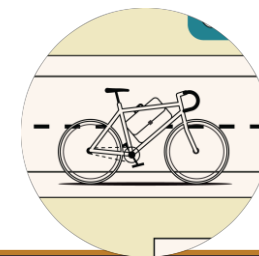
United States Climate Alliance

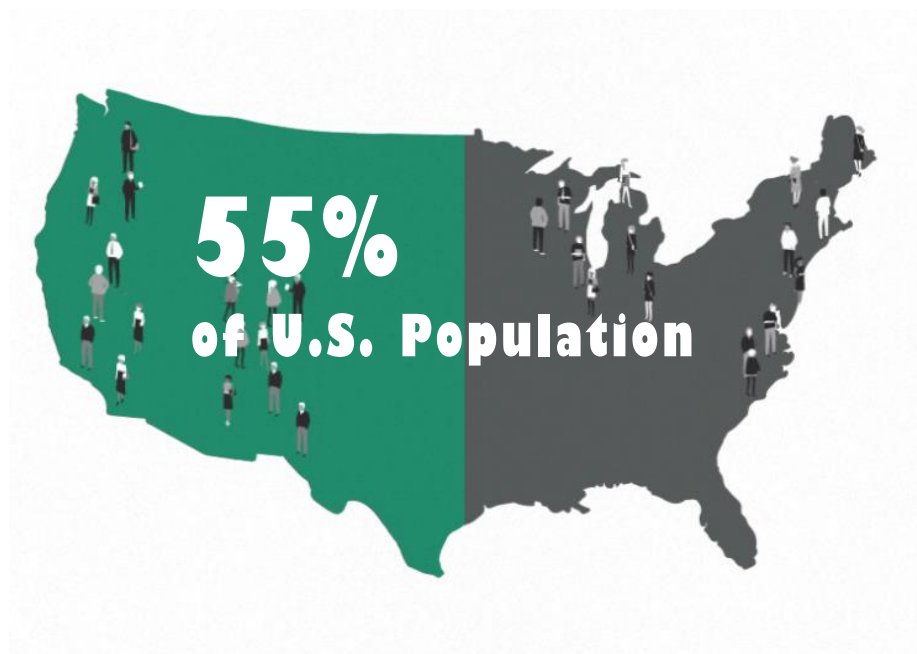
A **bipartisan** coalition of 25 governors committed to uphold the Paris Agreement



Alliance States commit to:

1. Reduce GHGs by at least 26-28 percent below 2005 levels by 2025;
2. Track and report progress; and
3. Accelerate implementation of existing and new policies.

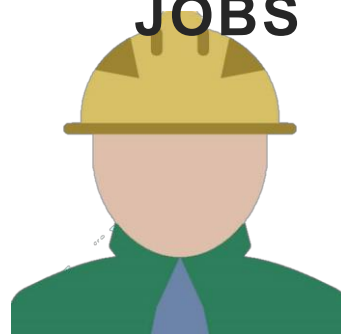




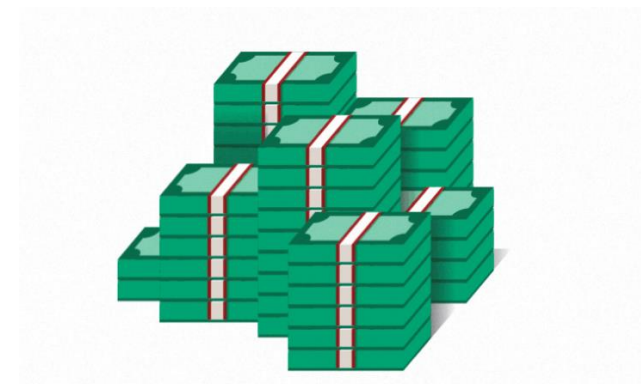
40%
U.S. GHG
EMISSIONS



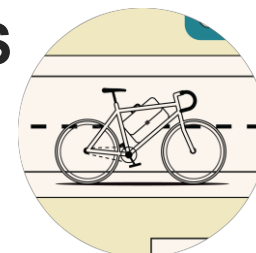
1.7 MILLION
CLEAN ENERGY
JOBS



\$11.7 TRILLION
IN U.S. GDP

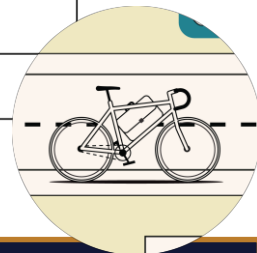


836 MILLION
ACRES



Transportation Emissions in Alliance States

Table 3 - Aggregate GHG Emissions from Alliance States, million metric tons CO2e						
Sector	2005	2017	2020	2025	2030	
Transportation	1,028	929	908	863 to 871	815 to 842	
Electricity	854	596	574	463 to 513	408 to 495	
Residential	258	215	215	202	191	
Commercial	147	147	151	146	143	
Industrial	369	324	345	344	337	
HFCs	43	98	97 to 110	77 to 120	49 to 125	
Agriculture	183	205	210	216	222	
Fugitive and Process Emissions from Oil & Gas Operations and Coal Mining	49	58	57 to 58	55 to 60	58 to 64	
Other Industrial Processes and Product Use	64	42	40	35	33	
Waste	64	51	46	40	35	



1. Speak with a Unified Voice

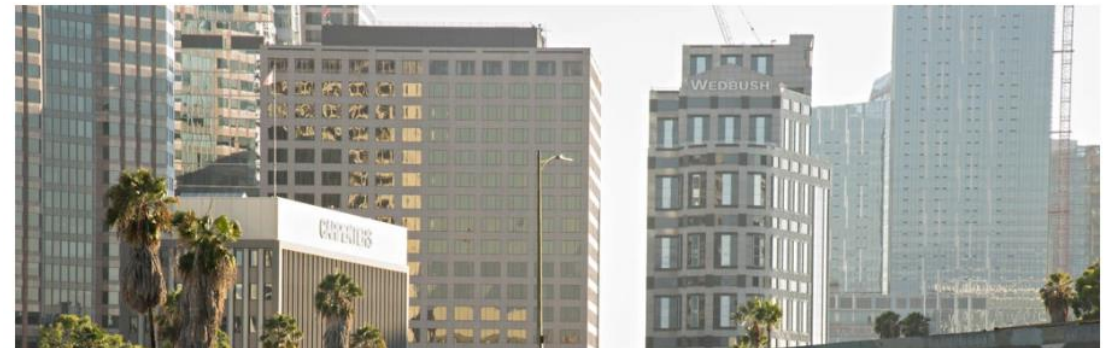


"Our most important job as governors is ensuring the safety of our constituents. So when we face a threat to people's livelihood and way of life, showing leadership means acknowledging the risk and addressing it. Climate change hits Democrats and Republicans alike, and we need to work together, despite our differences, to stop it."

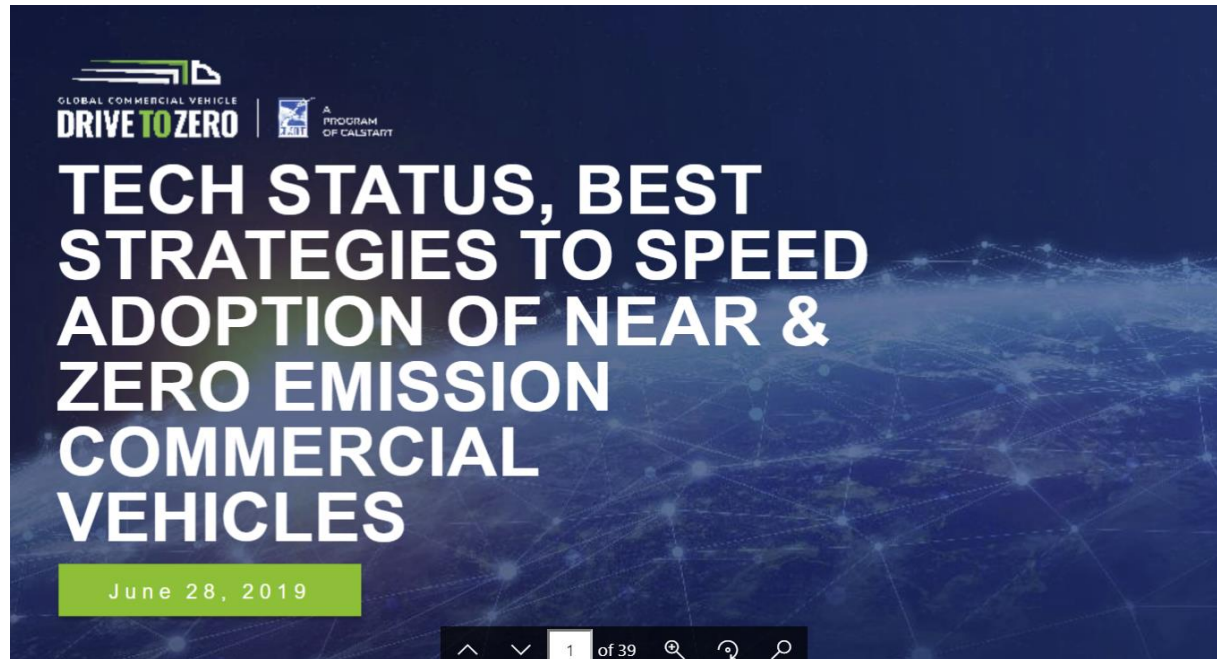
Larry Hogan, a Republican, is governor of Maryland. Ralph Northam, a Democrat, is governor of Virginia. They are members of the U.S. Climate Alliance.

The New York Times

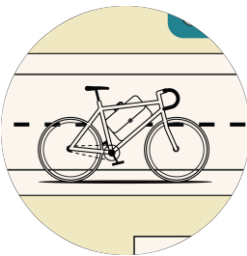
24 Governors Call on Trump to Halt Rollback on Rules for Clean Cars

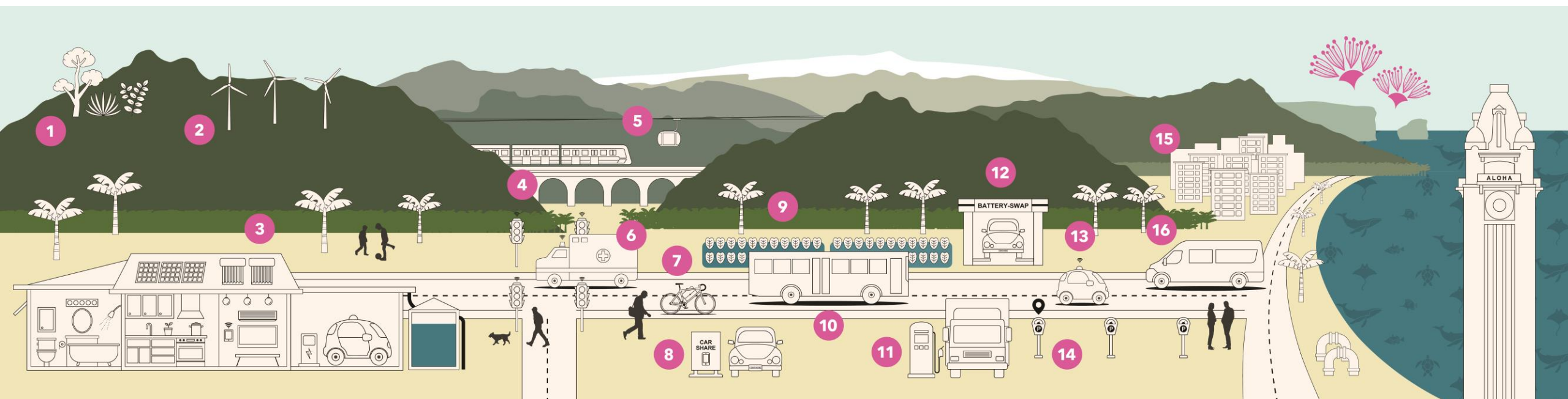


HDV - Policy Series and Case Study



- Incentive and Pricing Programs
- Pilot and Demonstration Programs
- Government Targets and Goals
- Utilizing Volkswagen Settlement Funds
- Promoting Low-Carbon Fuel Sources
- Collaborative State Planning to Install Necessary Charging Infrastructure

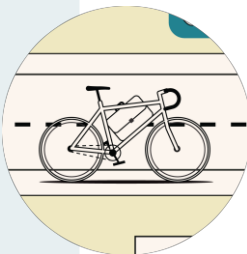




2015 Greenhouse Gas (GHG) Emissions by Top Sectors and Categories

Emissions (MMT)	Sector/Category	Notes
7.06	Energy/Energy Industries	Electric Power Plants and Refineries
5.64	Energy/Ground Transportation	
5.23	Energy/Other Transportation	Including domestic marine (0.39) and aviation (3.23); international marine (0.10) and aviation (1.51)
4.98	Everything Else	<ul style="list-style-type: none"> Industrial Processes and Product Use Agriculture, Forestry, and Other Land Uses Waste

Source: DOH 2018, GHG Technical Support Document



Climate Change Commission: Two pronged approach

Adaptation

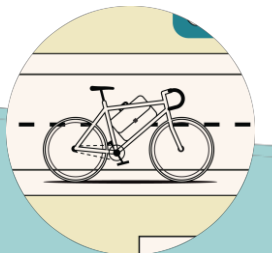
Sea Level Rise

**& Greenhouse Gas Sequestration
Taskforce: makes three!**

Carbon offsets

Mitigation

**Ground
Transportation**



Ground Transportation Emissions Mitigation

The Climate Commission's statement from November 27, 2018:

Carbon Pricing. While the specific mechanisms behind a carbon fee program are not yet outlined, the Commission emphasizes the urgent need for such a program, and supports legislation that endeavors to establish one, but also recognizes that any carbon pricing mechanism: □ Must be equitable, and appropriate for the people of Hawaii. □ Must demonstrate how this is a critical policy tool to protect the future—of Hawaii's keiki and 'āina. □ Must be adequate to change behavior.

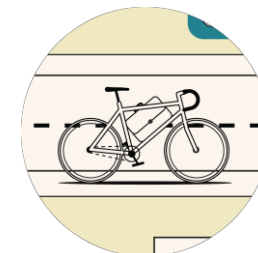
Along with the following supportive actions:

PSA Campaign. Partner with counties and local organizations to develop and undertake a multi-year educational/public service announcement (PSA) campaign to address the link between the need for a price on carbon and highlighting the importance of clean transportation in Hawaii—which will increase quality of life, and address climate change impacts by decreasing congestion, commute time and costs, and emissions.

Parking policies and management. Explore and develop statewide policies and partner with counties to modernize parking policies and parking management, which will reduce overall emissions, congestion and vehicle miles travelled (VMT) from driving, and increase biking, walking, and transit use, to achieve State goals.

Fleet transition. Transform State and county fleets to address VMT reduction, congestion, and emissions—especially through electrification, renewable fuels, carshare, and supporting infrastructure development and deployment.

Clean up existing laws. Amend laws, such as the state procurement laws, to better align them with clean transportation priorities.

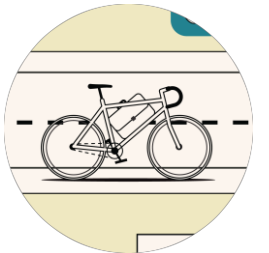


Fleet Tools

Transform State and county fleets to address VMT reduction, congestion, and emissions—especially through electrification, renewable fuels, carshare, and supporting infrastructure development and deployment.

--from Commission's Statement, Nov 2018

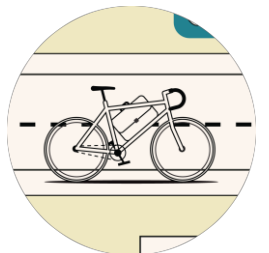
- Alternative vehicle assessments to help departments make decisions on vehicle replacement (for car swap out)
- Fleet analysis (for the full fleet)



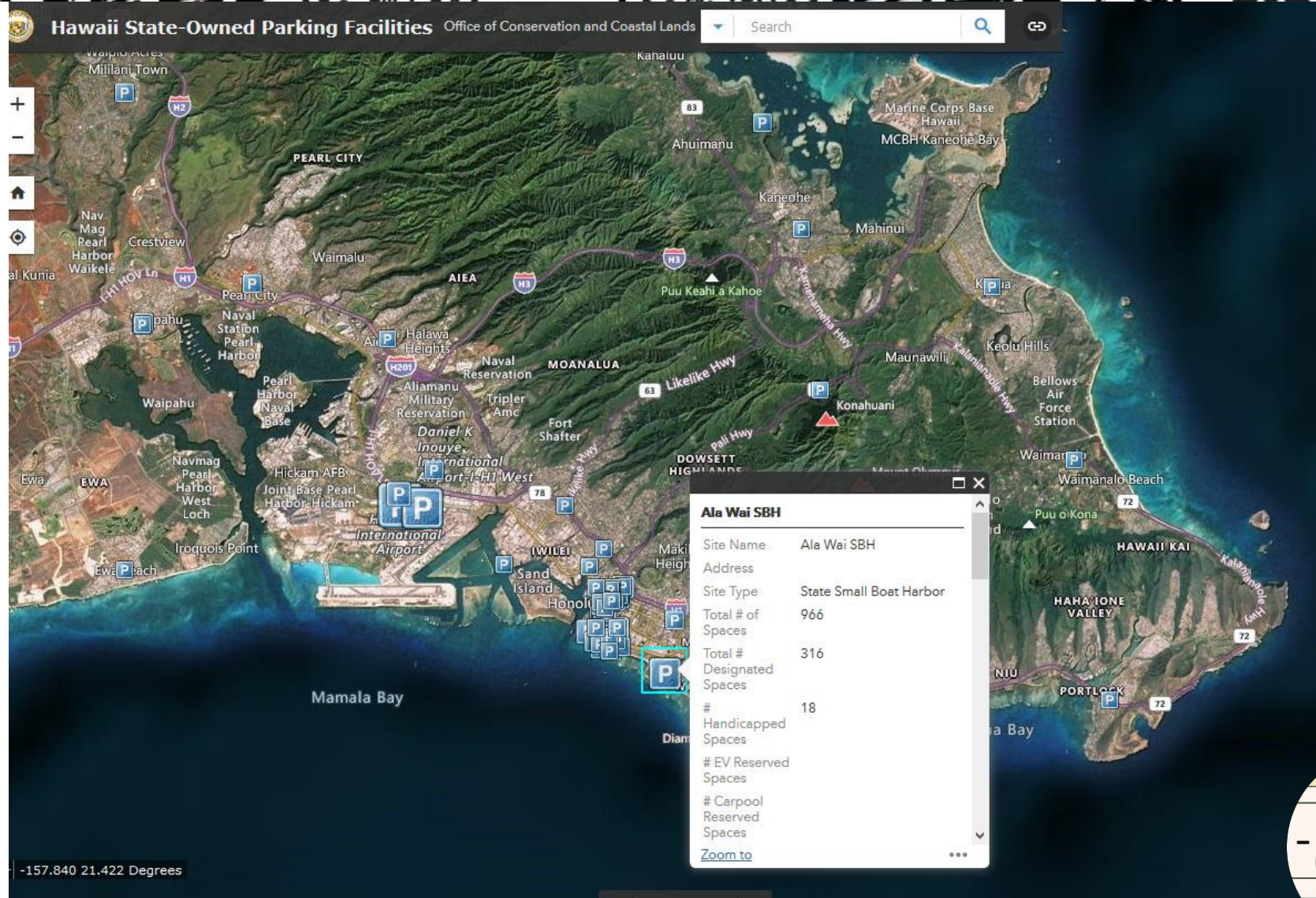
Total # of Parking Spaces Accounted For: 35K+

Data Category
State Lots (Public and Employee)
HCDA-Owned
Public Libraries
State Parks
State Small Boat Harbors
Airports
Public Schools
Other DLNR (Baseyards, etc.)
Post-Secondary Institutions
Hospitals

Source
Department of Accounting and General Services (DAGS)
Hawaii Office of Planning (OP)
Division of State Parks (DLNR-DSP)
Division of Boating and Ocean Recreation (DLNR-DOBOR)
Hawaii Community Development Authority (HCDA)
Hawaii Department of Planning and Permitting (DPP)







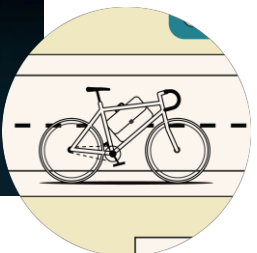
Hawaii State-Owned Parking Facilities Office of Conservation and Coastal Lands

Search

Map showing various parking facilities across Hawaii, including Pearl City, Aiea, Moanalua, and Honolulu. A pop-up window displays details for the Ala Wai SBH.

Ala Wai SBH	
Site Name	Ala Wai SBH
Address	
Site Type	State Small Boat Harbor
Total # of Spaces	966
Total # Designated Spaces	316
# Handicapped Spaces	18
# EV Reserved Spaces	
# Carpool Reserved Spaces	
Zoom to	

-157.840 21.422 Degrees





Subnational Efforts to Reduce Transportation Emissions in North America

COP25 – Blue Zone, Area 4, Room 2

Thursday, December 12, 2019 (15:00 – 16:30 CET)



GEORGETOWN
CLIMATE CENTER

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